

[CONTROLLING DEVICE OF COMPRESSOR]

Abstract of Disclosure

A controlling device of a compressor is provided. A noise filter is arranged at an input of the inverter circuit that converts the commercial frequency to a driving frequency to control a motor driving a compressor mechanism, for suppressing a common mode noise of the commercial power source and the inverter circuit, and is connected to a ground through a metal frame used for receiving a compressor main body. The noise filter comprises coils connected between first capacitors and second capacitors that are connected in series between the AC power lines, and further comprises a clamper connected between nodes of the second capacitors and the metal frame for clamping a voltage and a third capacitor connected to the clamper in parallel. even though the new refrigerant, such as R410A, and the three-phase AC power source are used, the leakage current can be reduced by a simple structure and the increase of the noise terminal voltage can be also suppressed. Furthermore, both of the legal regulation requirements can be met.

Figures